

Appln. No.: 09/964,852
Amendment dated November 19, 2007
Responsive to Office Action of September 19, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

receiving at a gateway first transmissions via from a digital broadcast network by means of a gateway terminal,

processing the first transmissions by means of the gateway terminal resulting in a wireless digitally modulated local broadband second transmission, including de-multiplexing a data stream of each of the first transmissions and re-multiplexing at least a part of the data stream of the first transmissions with data stored locally at the gateway,

re-transmitting from the gateway the received first transmissions as the wireless digitally modulated local broadband second transmission to a multimedia-terminal.

2. (Canceled).

3. (Currently Amended) A method according to claim 21, wherein the locally stored data is one of MP3 music, multimedia messages, multimedia album, picture, album, movies.

4. (Currently Amended) A method according to claim 21, further comprising receiving a request for the locally stored data via a wireless connection from the multimedia-terminal.

5. (Currently Amended) A method according to claim 1, wherein the step of processing further comprises scrambling the data stream of the first transmissions resulting in said wirelessly digitally modulated local broadband second transmission, for descrambling by the multimedia-terminal.

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6. (Currently Amended) A method according to claim 5, further comprising before the scrambling, de-scrambling the data stream of the first transmission.

7. (Currently Amended) A method according to claim 56, wherein the data stream is de-scrambled using a password.

8. (Original) A method according to claim 7, wherein the password is given by a remote controller.

9. (Currently Amended) A method according to claim 7, wherein the password comprises a ~~same~~-customer password which is entered ~~to~~ ~~at~~ ~~the gateway terminal and to~~ the ~~multimedia~~-terminal.

10. (Currently Amended) A method according to claim 1, wherein the first transmission ~~s~~ ~~is~~ ~~are~~ saved temporarily in a memory of the gateway terminal.

11. (Original) A method according to claim 1, wherein the second transmission is transmitted at a frequency allocated to free use.

12. (Currently Amended) A method according to claim 11, wherein the frequency allocated to free use is an Industrial-Scientific-Medical (ISM) frequency.

13. (Currently Amended) A method according to claim 1, wherein at least one of ~~the~~ first transmission, which is addressed to a certain ~~multimedia~~-terminal, which accordingly receives the second transmission, is scrambled at the gateway terminal.

14. (Currently Amended) A method according to claim 13, wherein the at least one of ~~the~~ first transmission which is scrambled at the gateway terminal can be opened as a pay service at the certain ~~multimedia~~-terminal.

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15. (Original) A method according to claim 1, wherein the modulation used in the second transmission is one of OFDM, QAM, 8-VSB, QPSK.
16. (Currently Amended) A method according to claim 1, wherein the further comprising receiving from the at least one multimedia-terminal makes a request for a given first transmission by means of over a separate wireless link.
17. (Currently Amended) A method according to claim 1, wherein further comprising receiving from the at least one multimedia-terminal makes a request for a data stream, which is transmitted via the wireless digitally modulated local broadband second transmission by means of over a same wireless link over which the second transmission is transmitted.
18. (Currently Amended) An apparatus gateway-terminal comprising:
a processor; and
a memory configured to store computer readable instructions that, when executed by the processor, cause the apparatus to;
means for receiving receive first transmissions from a digital broadcast network,
means for processing the first transmissions resulting in a wireless digitally modulated local broadband second transmission, including de-multiplexing a data stream of each of the first transmissions, and re-multiplexing at least a part of the data stream of the first transmissions with data stored at the apparatus,
means for re-transmitting the received first transmissions as the wireless digitally modulated local broadband second transmission, including a broadband port for transmitting the second transmission by a broadband digital transmission at a frequency allocated to free use to a terminal.
19. (Canceled).

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20. (Currently Amended) An gateway terminal apparatus according to claim 18, wherein the computer readable instructions gateway terminal further comprises means at least one instruction that when executed by the processor causes the apparatus to for saving save the first transmissions temporarily at the gateway apparatus.

21. (Currently Amended) An gateway terminal apparatus according to claim 18, wherein the computer readable instructions that, when executed by the processor, cause the apparatus to re-transmit the received first transmissions as the wireless digitally modulated local broadband second transmission are configured such that the re-transmission takes place at a frequency allocated to free use, and wherein the frequency allocated to free use comprises a frequency allocated to an Industrial-Scientific-Medical (ISM) use.

22. (Currently Amended) An gateway terminal apparatus according to claim 18, wherein the computer readable instructions further comprising comprise means at least one instruction for that when executed by the processor causes the apparatus to descrambling descramble the first transmissions, if necessary.

23. (Currently Amended) An gateway terminal apparatus according to claim 18, wherein the means for apparatus further comprises a receiver configured to receiving receive the first transmissions, a demodulator configured to demodulate the received first transmissions, comprises a receiver and demodulator block and, after that, a descrambler configured to descrambling descramble block 24 the demodulated first transmissions.

24. (Currently Amended) An gateway terminal apparatus according to claim 18, wherein the gateway terminal apparatus further comprises a MPEG-2 analog-to-digital converter for receiving configured to receive locally available first transmissions.

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25. (Currently Amended) An gateway terminal apparatus according to claim 23~~18~~,

wherein the broadband part in the gateway terminal comprises apparatus further comprises:

a multiplexer block arranged configured so that a generally available to receive a descrambled first transmission is fed into it from a the descrambling block descrambler and a locally available first transmission is fed into it from a MPEG-2 analog-to-digital converter, wherein the multiplexer is configured to generate a multiplexed data stream from the descrambled first transmission from the descrambler and the locally available first transmission,

a scrambling block after the multiplexer block scrambler configured to scramble the multiplexed data stream,

a modulator after the scrambling block in order configured to receive the scrambled data stream and produce the a desired modulation modulated signal,

a mixer and a local oscillator in connection therewith in order configured to convert the modulated signal into a desired Industrial-Scientific-Medical (ISM) frequency, and

an amplifier after the mixer in order configured to amplify the ISM frequency signal as the second transmission to be transmitted;

— an antenna in order to transmit the amplified second transmission; and

— a central processing unit in order to control the operation of the gateway terminal.

26. (Currently Amended) An gateway terminal apparatus according to claim 25,

wherein the modulator ~~used~~ is one of a OFDM modulator, a QAM modulator, a 8-VSB modulator, a QPSK modulator.

27. (Currently Amended) An gateway terminal apparatus according to claim 49~~18~~,

wherein the interactive part in the gateway terminal computer readable instructions further include at least one instruction that, when executed by the processor, causes the apparatus to comprises:

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~~means for connecting the gateway terminal to an external communications network,~~
~~means for connecting the gateway terminal to a local signal source, and~~
~~means for establishing a wireless link between the gateway terminal apparatus and at least one the multimedia terminal, and~~
~~a central processing unit shared with the broadband part in order to control the operation of the interactive part.~~

28. (Currently Amended) An gateway terminal apparatus according to claim 27, wherein the wireless link between the gateway terminal apparatus and the at least one multimedia terminal is realized using technology complying with one of the following systems: GSM, GPRS, DECT, UMTS, WLAN, HomeRF, Bluetooth.

29. (Currently Amended) An multimedia terminal apparatus comprising:
~~a receiving antenna for receiving a wireless digitally modulated broadband second transmission resulting from the first transmission,~~
~~wherein the receiving antenna is arranged so as to function at a frequency allocated to free use, and wherein the second transmission is formed from a de-multiplexed version of the data stream of each of the first transmissions,~~
~~a receiver block for configured to receiving receive the a wireless digitally modulated broadband second transmission resulting from a first transmission at a frequency allocated to free use second transmission,~~
~~a demodulator block for configured to demodulating demodulate the received second transmission,~~
~~a demultiplexer for configured to separating demultiplex the received second transmission into data of their own, and~~
~~a descrambling block/scrambler for configured to descrambling descramble the data if when the data is scrambled.~~

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wherein a portion of a de-multiplexed version of the first transmission is re-multiplexed with data not included in the first transmission to form the wireless digitally modulated broadband second transmission.

30. (Currently Amended) An multimedia terminal apparatus according to claim 29, wherein the frequency allocated to free use is a frequency allocated to Industrial-Scientific-Medical (ISM) use.

31. (Currently Amended) An multimedia terminal apparatus according to claim 29, wherein the apparatus further comprising a wireless communications-capable unit with an antenna and a central processing unit controlling the operation of the multimedia terminal in order is configured to provide a wireless link between the a gateway terminal and the multimedia terminal apparatus.

32. (Currently Amended) An multimedia terminal apparatus according to claim 31, wherein the wireless link between the gateway terminal and the multimedia terminal apparatus is arranged so as to be realized using technology complying with one of the following systems: GSM, GPRS, DECT, UMTS, IEEE 802.11, Bluetooth, HomeRF.

33. (Currently Amended) An multimedia terminal apparatus according to claim 31, wherein the wireless communications-capable unitapparatus is further comprises means for configured to requesting at least one of the first transmissions, which is transmitted via the wireless digitally modulated second transmission, via the wireless link.

34. (Canceled).

35. (Canceled).

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36. (Currently Amended) A broadcast network arrangementmethod according to claim 341, wherein the broadcast network arrangementmethod further comprises means for comprising establishing a two-way wireless link.

37. (Currently Amended) An broadcast network arrangementapparatus according to claim 3618, wherein the computer readable instructions further include instructions that, when executed by the processor, cause the apparatus to:

establish a communications connection is arranged to an individual multimedia between the apparatus and a terminal via the-a wireless link, and
receive a request via the communications connection from the terminal for at least one of the first transmissions,
wherein the wireless digitally modulated local broadband second transmission through which connection the terminal is able to control the gateway terminal so as to includes in its second transmission one of the at least one of the first transmissions requested by the multimedia terminal.

38. (Currently Amended) An broadcast network arrangementapparatus according to claim 3631, wherein a gateway terminal is through the wireless link arranged so as to force the multimedia terminal the apparatus is configured to receive a directive via the wireless link, said directive directing the apparatus to function as an alarm/display device.

39. (Currently Amended) A broadcast network arrangementmethod according to claim 341, wherein the second transmission transmitted by a the gateway terminal comprises at least one of the following: video image, sound, data, system control information.

40. (Canceled).